PATENT ABSTRACTS OF JAPAN

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(21)Application number: 2003-368389 (71)Applicant: SEKO INSTRUMENTS INC

(22)Date of filing: 29102003 (72)Inventor: NAKAMURA NORIHKO

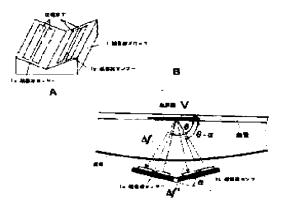
KMURA FUM D SUZUKIM ZUAKI ARAOGIMASATAKA

(54) CIRCULATORY DYNAMIC MEASURING INSTRUMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a blood non-collecting type circulatory dynam is measuring method directly finding the absolute value of a blood flow velocity and highly precisely providing hem orheology and related physical quantities and to provide a device realizing it.

SOLUTDN: This flow velocity measuring method calculates the flow velocity from detected Doppler signals of and off of two sets of ultrasonic transceivers disposed in different directions relative to the flow velocity and disposed angle information; between the two ultrasonic transceivers and finds the absolute value of the flow velocity (v). This method standardizes the flow velocity using plethysmogram information, removes a noise by fluctuation of an organism, and divides the average value of standardized maximum blood flow velocities by the maximum blood pressure value to find the corrected blood flow velocity showing the viscosity of the blood.



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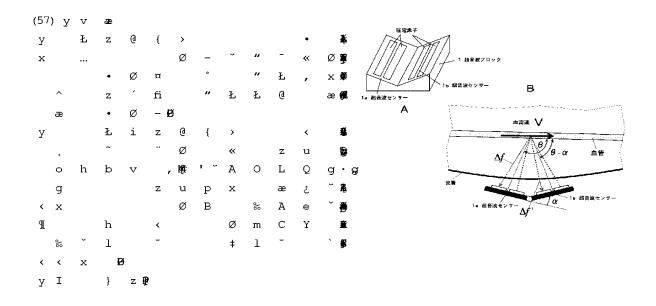
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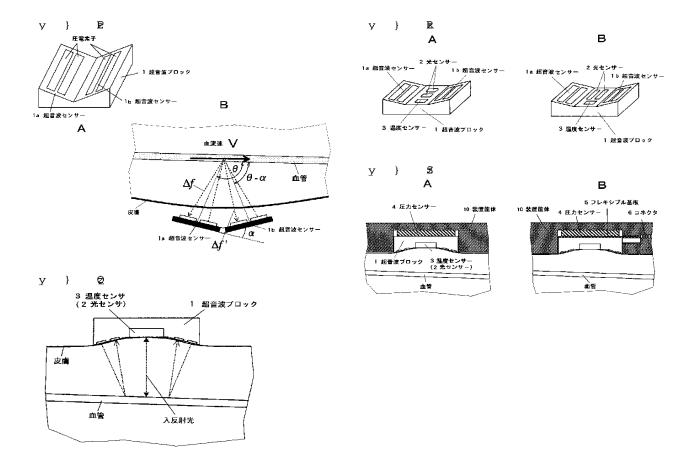
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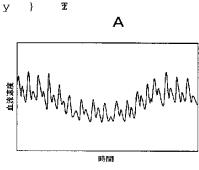
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(54) 【発明の名称】循環動態測定装置

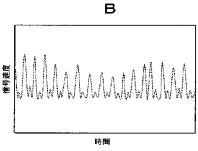


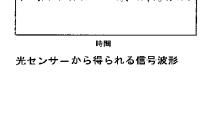
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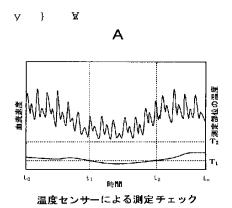


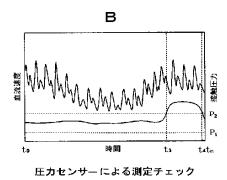


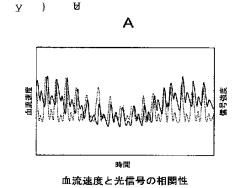
超音波センサーから得られる血流速度波形

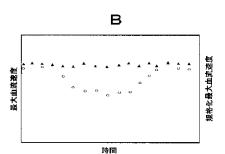




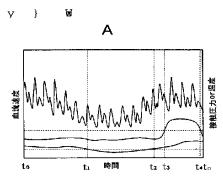




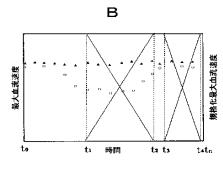




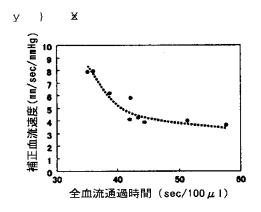
最大血流速度の規格化



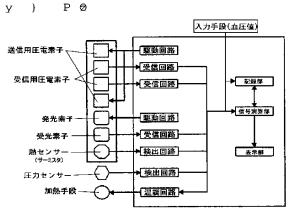
データ解析に使用する時間



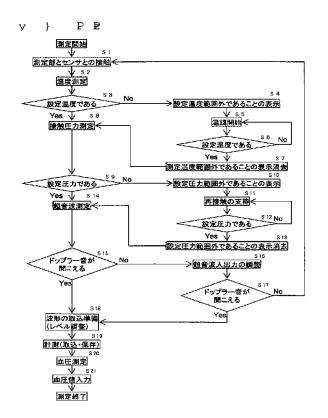
評価に用いるデータ

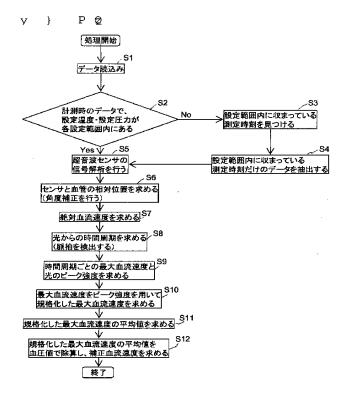


従来法との比較による効果確認



システムブロック図





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